

Eileen Wine Bottle Stand

Name: _____

Date: _____

Description:

The project is a simple wine bottle stand made out of a single piece of wood. The project involves detail and accuracy. Skills highlighted in this project are measuring and marking, cutting, drilling, sanding, and painting/staining. This project can be very dynamic using a variety of tools to achieve the same result. It can even be taken on step further and use a variety of alternating wood types to make the same product.

Materials:

- 1x6 pine or hardwood cut to 3 5/8" x 15"
- stain
- painters tape

Tools:

- tape measure
- pencil
- compound mitre saw
- speed square
- drill press
- router with round-over bit
- sandpaper (fine and medium)
- paintbrush

Directions:

Before you Start!

- Put on your safety glasses
- Read all directions and study the plans

1. Gather it

Gather the necessary material. Each student will need a piece of #2 pine that is cut to 3 5/8" x 15 inches.

If the board is not already cut, you will need to **crosscut** your board using the compound mitre saw to 15" in length. Then use the band saw to rip the board to a width of 3 5/8". (Watch demonstration before doing so) If your **rip** is not perfect, then use the 12" disc sander to square up your board. Typically you would use a jointer to smooth out or flatten up an edge.

2. MEASURE IT

Cut your board to the proper dimensions. Mark your board using a tape measure and **speed square**.

To cut the angle on the board measure out $13 \frac{9}{16}$ " from one end of the board. Draw a line across the width. Flip the board over and do the same on the other side but measure 14" out from the end. Score the lines across the width of the board and then connect the lines on the $\frac{3}{4}$ " sides. This will give you the angle to cut the board (roughly 27 degrees).

3. CUT IT

Adjust the mitre saw to the proper angle. Place pine board on mitre saw table making sure the wood is pushed up against the fence. Always cut to the outside of your line so that the **kerf** will not cut into the part of the workpiece you are keeping.

4. MARK AND DRILL

Opposite the angled edge, draw a line across the width of the board that is $3 \frac{1}{4}$ " away from the end.

Measure to the middle of the board and draw a vertical line creating a cross hair.

Using the drill press, drill a $1 \frac{1}{4}$ " hole in the wood centered on the crosshair. We will be using a Forstner bit. (See instructor's demonstration)

5. ROUTER

Use the router with a round-over bit to round out the hole that will hold the wine bottle neck.

6. DETAIL OR PAINTING

Sand down any rough spots on the edges or inside the circle on the board. Wipe clean and either add stain or paint to the board.

Wipe stain on with a cloth. Wait until dry and add a coat of sealer.

Brush or spray paint onto the board, let dry and add a coat of sealer.

-If using spray paint, many thin coats is the only way to go!!!

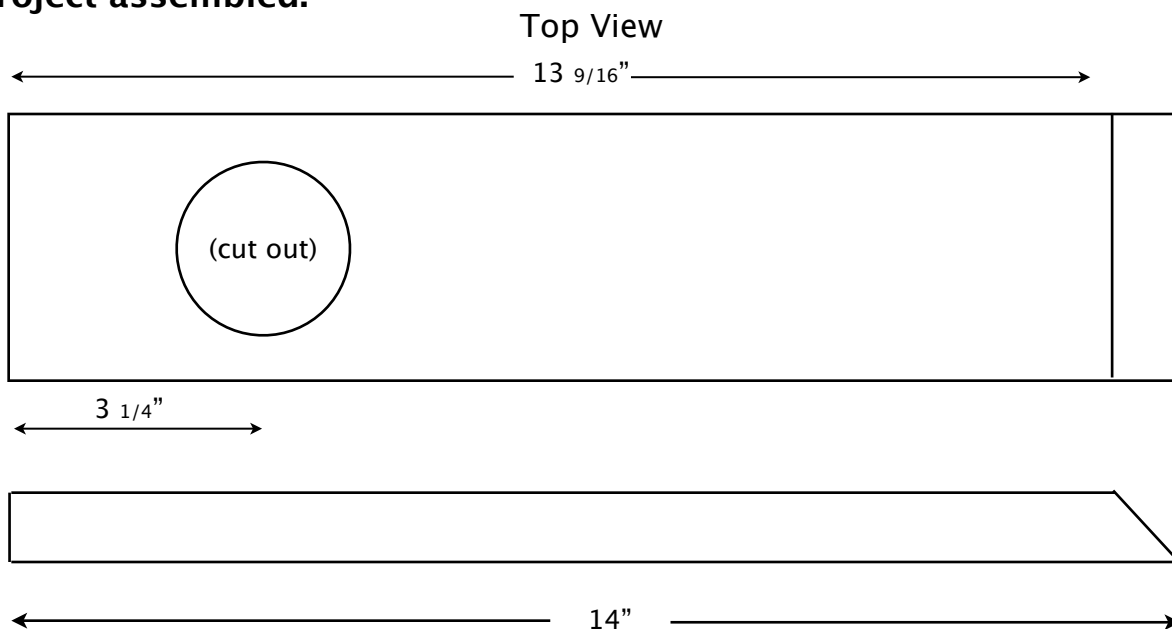
*The finish is what is most important. Be creative and pay attention to detail. The finish you put on your project can really make it sell. Take your time, be careful and do a great job!

Notes:

Drawing/Photo:



Project assembled.



Eileen Wine Stand Student Worksheet:

Name: _____

Date: _____

Complete this worksheet prior to starting the project.

1. What size and type of wood is used for this project?

2. Draw a sketch of the project and label the dimensions.

3. The wood purchased for the project was 1 x 6. What were the true measured dimensions of the board after we ripped and crosscut it? _____

4. This project requires you to drill a large hole. What type of drill bit and what size bit will you be using on this project?

5. What tools are required to complete this project?

6. DEFINE THE FOLLOWING:

Kerf--

Crosscut--

Rip--

Grading Rubric:

Criteria (+ / - 1/8")	Possible	Score
Length with proper angle	10	
Hole location and router quality	10	
Worksheet completion	10	
Clean use of stain	10	
General Workmanship (Clean edges, sanded smooth, holes and voids filled)	10	
TOTAL	50	

